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GOVERNOR



**HAROLD LEGGETT, PH.D.**  
SECRETARY

## State of Louisiana

### DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20050010  
Agency Interest No. 2245

Mr. Richard Bartley  
Facility Manager  
Terra Mississippi Nitrogen, Inc.  
PO Box 310  
Donaldsonville, LA 70346-0310

RE: Part 70 Operating Permit  
Terra Mississippi Nitrogen, Inc. - Donaldsonville Facility  
Donaldsonville, Ascension Parish, Louisiana

Dear Mr. Bartley:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2009.

Permit No.: 0180-00009-V1

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:sfp  
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Terra Mississippi Nitrogen, Inc.  
Donaldsonville Facility  
Agency Interest No.: 2245  
Donaldsonville, Ascension Parish, Louisiana**

**I. Background**

Terra Mississippi Nitrogen, Inc., a wholly owned subsidiary of Terra Industries, Inc., owns and operates as of February 2009 an Anhydrous Ammonia Plant and terminal located in Donaldsonville, Louisiana.

Previously, differently portions of the facility were owned and operated by two separate organizations: AMPRO Fertilizer, Inc. and Triad Nitrogen, LLC. As a result of corporate restructuring and the transfer of assets, Triad Nitrogen, LLC became the owner and operator of the entire facility on December 24, 1996. As a result of further corporate restructuring and the transfer of assets, Triad Nitrogen, LLC became the owner and operator of the facility on July 1, 1999. The initial Title V Operating Permit for Triad Nitrogen, LLC, Permit No. 0180-00009-V0, was issued on January 11, 2001. Following the issuance of the initial Title V Operating Permit, the Donaldsonville facility was purchased by Terra Mississippi Nitrogen, Inc. on December 21, 2004 and a request for a change of ownership was submitted to the LDEQ in February 2005.

The aqueous ammonia production plant currently operates under Small Source Permit No. 2737 issued by LDEQ on August 2, 2001. A General Title V Permit application for the Aqua Ammonia System was received on March 2, 2009 which requests an increase in Aqua Ammonia from 150 tons per day to 200 tons per day.

The Melamine Chemicals, Inc. facility (Agency Interest #2398) is co-located within the Triad Nitrogen, LLC complex. Melamine Chemicals, Inc. was previously a wholly owned subsidiary of Borden, Inc. The Part 70 air permit for this facility was issued by LDEQ on November 28, 2001 (reference Permit No. 0180-00005-V0). In April of 2003, Triad Nitrogen, LLC purchased the Melamine Chemicals facility from Borden, Inc. Triad maintained the original name of Melamine Chemicals, Inc. and requested a change of ownership along with some administrative amendment changes of Part 70 air permit #0180-00005-V0. On May 22, 2003 the LDEQ approved these changes and issued an administrative amendment to Triad Nitrogen for Melamine Chemicals, Inc. facility.

The Melamine Chemicals facility was restarted and operated until April 2004. The Melamine chemicals facility has not operated since April 2004 and is now permanently shutdown. Terra Industries, Inc. purchased the Melamine Chemicals, Inc. facility on December 21, 2004 when it purchased Triad Nitrogen, LLC. Terra Mississippi Nitrogen, Inc. submitted the change of ownership request to the LDEQ in February 2005. This request was approved by LDEQ on June 1, 2005.

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This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Terra Mississippi Nitrogen, Inc. on July 13, 2005 requesting a Part 70 operating permit. A revised application and Emission Inventory Questionnaire dated February 16, 2009 was submitted by Terra Mississippi Nitrogen which replaced the previously submitted application in its entirety. Additional information associated with the February 2009 application dated March 18, 2009, March 25, 2009 and April 3, 2009 was also received.

**III. Description**

Anhydrous ammonia is produced using the Kellogg Process and uses ingredients common in the environment: natural gas, air and water. Under high temperature and in the presence of a catalyst, the substances react to form a gas stream consisting primarily of hydrogen, nitrogen, carbon monoxide, carbon dioxide and other gases. Using a series of catalysts and chemical solutions, all gases are removed with the exception of nitrogen and hydrogen. The commingled nitrogen and hydrogen, called synthesis gas, is then brought in contact with another catalyst under high pressure. The synthesis gas reacts to form ammonia gas. The ammonia gas is then condensed to a liquid using a refrigeration machine. Terra Mississippi Nitrogen, Inc. is capable of producing via the No. 2 Ammonia Plant approximately 1,800 tons of ammonia per day.

The aqua ammonia system is currently permitted to produce 150 tons per day of 29.9% aqua using vapor ammonia. The system operates by routing ammonia vapors to an absorption column. Makeup water from the facility's existing condensate systems circulates through the absorption column to absorb the vapors. Once the concentration of the circulation flow in the column achieves 29.9% aqua ammonia, the product is diverted to a 43,000 gallon storage tank. The product is loaded from there into trucks or rail cars.

The initial Title V Operating Permit, Permit No. 0180-00009-V0, addressed two Ammonia Plants (Referenced as Plant No. A-I and Plant No. A-II) and a Urea Plant. With this Title V renewal, Permit No. 0180-00009-V1, the following facilities will be permitted:

- One Ammonia Plant (Plant No. A-II) and all ancillary equipments;
- The truck and rail car loading area and barge/ship loading area from the A-I Ammonia Plant;
- Additional miscellaneous pumps and yard piping.

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Various emission sources associated with the No. 1 Ammonia Plant and the Urea Plant are being deleted from the operating permit due to the permanent shutdown of these facilities.

This permit will also incorporate General Title V Permit No. 3076-V0 authorizing the operation of the aqua ammonia production facility. The application for this permit was received March 2, 2009.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	169.2	62.91	-106.29
SO <sub>2</sub>	5.71	3.66	-2.05
NO <sub>x</sub>	3,546.7	1311.94	-2234.76
CO	757.8	654.17	-103.63
VOC	138.8	102.69	-36.11

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,3-Butadiene	-	0.002	+0.002
1,4-Dichlorobenzene	-	0.01	+0.01
Acetaldehyde	-	0.02	+0.02
Acrolein	-	0.002	+0.002
Ammonia	2,178.2	169.19	-2009.01
Benzene	0.05	0.07	+0.02
Cadmium	-	0.005	+0.005
Chromium VI (and compounds)	-	0.006	+0.006
Chlorine	-	<0.01	+0.01
Ethyl benzene	<0.01	0.01	0
Formaldehyde	0.73	0.38	-0.35
Methanol	118.93	96.39	-22.54
Methyl Tert Butyl Ether	<0.01	-	-0.01

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**LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Naphthalene (and Methyl naphthalenes)	-	0.03	+0.03
Nickel (and compounds)	-	0.009	+0.009
Toluene	<0.01	0.05	+0.04
Xylene (mixed isomers)	<0.01	0.03	+0.02
n-Hexane	-	7.92	+7.92
Total	2297.95	274.134	-2023.82

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations. Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The class III TAPs emitted above the Minimum Emission Rate (MER), ammonia, n-hexane and methanol, do not require MACT. Formaldehyde, a Class I TAP, is emitted at levels above the MER. However, all but 0.001 tpy of formaldehyde emissions are the result of burning of Group 1 Virgin Fossil Fuels (natural gas and purge gas) and do not require MACT review. All other TAPs are emitted at rates below the MER and do not require MACT.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed facility were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to update modeling of emissions.

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard
Ammonia	8-hour	*578 µg/m <sup>3</sup>	640 µg/m <sup>3</sup>

\*Modeling based on emissions associated with initial Part 70 Operating Permit No. 0180-00009-V0.

**VIII. General Condition XVII Activities**

Work Activity	Schedule	PM <sub>10</sub>	Emission Rates - tons		
			SO <sub>2</sub>	NO <sub>x</sub>	CO
None					VOC

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**IX. Insignificant Activities**

ID No.	Description	Citation
97	564 Gal Raw Water Pump Diesel Fuel Tank	LAC 33.III.501.B.5.A.3
	1,000 Gal Emergency Fire Water Pump Engine Diesel Tank	LAC 33.III.501.B.5.A.3
98	10,000 Gal Waste Oil Tank	LAC 33.III.501.B.5.A.3
	1,050 Gal Diesel Storage Tank	LAC 33.III.501.B.5.A.3
105-J	2,200 Gal Lube Oil Tank No. 1	LAC 33.III.501.B.5.A.3
103-J	875 Gal Lube Oil Tank N.2	LAC 33.III.501.B.5.A.3
2001-F	8,530 Gal Sulfuric Acid Storage Tank	LAC 33.III.501.B.5.D
2003-F	8,530 Gal Caustic Storage Tank	LAC 33.III.501.B.5.B.40
	15 Totes & Storage Tanks Used for Storing Water Treatment Compounds	LAC 33.III.501.B.5.B.8
	Laboratory Operations	LAC 33.III.501.B.5.A.6
	550 Gal Diesel Tank	LAC 33.III.501.B.5.A.3
	500 Gal Diesel Tank	LAC 33.III.501.B.5.A.3
	Various Oils/Wastes in 55-Gal Drums	LAC 33.III.501.B.5.A.3
	Several 55 Gal Drums of Compressor Oil	LAC 33.III.501.B.5.A.3
	500 Gal Caustic Storage Tank	LAC 33.III.501.B.5.B.40
	1,000 Gal 25% Caustic Storage Tank	LAC 33.III.501.B.5.B.40
	2,000 Gal Sodium Aluminate Tank	LAC 33.III.501.B.5.A.4
	5,500 Gal AG Guard 796 Tank	LAC 33.III.501.B.5.B.8
	Two (2) 500 Gal Sulfuric Acid Tank	LAC 33.III.501.B.5.D
	*Two (2) 150 hp Natural Gas Fired Emergency Power Generators	LAC 33.III.501.B.5.D
JD-23	2,200 gpm Chiller Cooling Tower	LAC 33.III.501.B.5.D

\*These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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X. XI. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter										
		2	5▲	9	11	13	15	2103	2113	2115	2122	
UNF1	Terra Mississippi Nitrogen, Inc.	1	1	1	1	1	1		1	3	1	1
ARE05	ID-100 Wastewater Pond											1
ARE06	ID-112 Stormwater Drains											1
EQT04	ID-09 Ammonia Storage Flare	1	1	1	1	3						1
EQT05	ID-21 Flare (Ammonia Plant No. 1)	1	1	1	1	3						1
EQT06	ID-22 Railcar and Truck Loading Area (Ammonia Plant No. 2)	1	1	1	1	3						1
EQT07	ID-24 Railcar and Truck Loading Area (Ammonia Plant. No.1)	1	1	1	1	3						1
EQT08	ID-25 Ammonia Barge and Ship Loading Area											
EQT09	ID-104 Process Area Sumps											1
EQT10	ID-26a Aqua Ammonia System Knockout Tank	1										
EQT11	ID-91 Raw Water Supply Diesel Engine							1	1	3		
EQT12	FP-01 Ammonia Plant No. 2 Fire Water Pump Diesel Engine							1	1	3		
EQT13	CT-01 Ammonia Plant No. 2 Cooling Tower							3			1	

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**X. XI. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33 III. Chapter														
		2	5▲	9	11	13	15	2103	2113	2115	2122	22	51*	53*	56	59*
EQT14	ID-02 Primary Reformer Stack Vent (Ammonia Plant No. 2)			1	1	3				3		1				
EQT15	ID-04 CO2, Regenerator Stack Vent (Ammonia Plant No. 2)									3		1				
EQT16	MIC 23 Ammonia Plant No. 2 Start-up Vent															
EQT17	MIC 25 Ammonia Plant No. 2 Start-up Vent															
EQT18	PIC-4V-25 Ammonia Plant No. 2 Start-up Vent															
EQT19	SU 1 Start-up Heater for Ammonia Plant No. 2							1	1	3						
EQT20	RV-110 Ammonia Plant No. 2 Refrigeration Relief											1				
EQT21	PIC-5 Ammonia Plant No. 2 Start-up Vent															
EQT27	ID-26b 43,000 Gallon Aqua Ammonia															
EQT28	ID-26c 26,000 Gallon Aqua Ammonia Storage Tank #1															
EQT29	ID-26c 26,000 Gallon Aqua Ammonia Storage Tank #2															
EQT30	ID-26e 18,000 Gallon Demin. Water Storage Tank															
EQT31	M1 Unleaded Gasoline Storage Tank										1					
FUG01	ID-20 Fugitive Emissions (Ammonia Plant No. 2)											1				

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X. **XI. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter													
		2	5▲	9	11	13	15	2103	2113	2115	2122	22	51*	53*	56
FUG02	ID-28 Fugitive Emissions (Ammonia Tank No. 1, Injection Dock)														
FUG03	ID-29 Fugitive Emissions (Aqua Ammonia System)														

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP					
		A	K	Ka	Kb	III	A	M	F	A	EE	SS	VV	HHH	68	82			
UNF1	Terra Mississippi Nitrogen, Inc.									1	1	2					1	3	
ARE05	ID-100 Wastewater Pond																		
ARE06	ID-112 Stormwater Drains																		
EQT04	ID-09 Ammonia Storage Flare																		
EQT05	ID-21 Flare (Ammonia Plant No. 1)																		
EQT06	ID-22 Railcar and Truck Loading Area (Ammonia Plant No. 2)																		
EQT07	ID-24 Railcar and Truck Loading Area (Ammonia Plant. No.1)																		
EQT08	ID-25 Ammonia Barge and Ship Loading Area																		
EQT09	ID-104 Process Area Sumps																		
EQT10	ID-26a Aqua Ammonia System Knockout Tank																		
EQT11	ID-91 Raw Water Supply Diesel Engine																		
EQT12	FP-01 Ammonia Plant No. 2 Fire Water Pump Diesel Engine																		3
EQT13	CT-01 Ammonia Plant No. 2 Cooling Tower																		3
EQT14	ID-02 Primary Reformer Stack Vent (Ammonia Plant No. 2)																		
EQT15	ID-04 CO2, Regenerator Stack Vent (Ammonia Plant No. 2)																		

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR				
		A	K	Ka	Kb	III	A	M	FF	A	EE	SS	VV	HHH	68
EQT16	MIC 23 Ammonia Plant No. 2 Start-up Vent														
EQT17	MIC 25 Ammonia Plant No. 2 Start-up Vent														
EQT 18	PIC-4V-25 Ammonia Plant No. 2 Start-up Vent														
EQT19	SU 1 Start-up Heater for Ammonia Plant No. 2														
EQT20	RV-110 Ammonia Plant No. 2 Refrigeration Relief														
EQT21	PIC-5 Ammonia Plant No. 2 Start-up Vent														
EQT27	ID-26b 43,000 Gallon Aqua Ammonia Storage Tank														
EQT28	ID-26c 26,000 Gallon Aqua Ammonia Storage Tank #1														
EQT29	ID-26c 26,000 Gallon Aqua Ammonia Storage Tank #2														
EQT30	ID-26e 18,000 Gallon Demin. Water Storage Tank														
EQT31	M1 Unleaded Gasoline Storage Tank														
FUG01	ID-20 Fugitive Emissions (Ammonia Plant No.2)														
FUG02	ID-28 Fugitive Emissions (Ammonia Tank No. 1, Injection Dock)														
FUG03	ID-29 Fugitive Emissions (Aqua Ammonia System)														

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**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

**Blank – The regulations clearly do not apply to this type of emission source.**

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
UNF01 – Entire Facility	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	DOES NOT APPLY. Facility is not a petroleum refinery, natural gas processing plant, synthetic organic chemical manufacturing facility, methyl tertiary butyl ether manufacturing facility or polymer manufacturing facility.
	40 CFR 61 Subpart FF - National Emission Standard for Benzene Waste Operations	EXEMPT. The total annual benzene quantity from facility waste is <10 Mg/yr.
	40 CFR 82 Subpart E – Labeling for Ozone Depleting Substances; 40 CFR 82 Subpart F – Refrigerant Recycling and Emissions Reduction	DOES NOT APPLY. Class I or Class II refrigerants are not used at Terra.
EQT04-Ammonia Storage Flare EQT05-Flare (Ammonia Plant No. 1)	LAC 33:III.Chapter 15.Emission Standards for Sulfur Dioxide	DOES NOT APPLY. Single point sources emit or have the potential to emit less than 5 tons per year of sulfur dioxide into the atmosphere.
EQT11-Raw Water Supply Diesel Engine EQT12 – Ammonia Plant No. 2 Fire Water Pump Diesel Engine EQT14-Primary Reformer Stack Vent (Ammonia Plant No. 2) EQT19-Start-up Heater for Ammonia Plant No. 2		

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT13-Ammonia Plant No. 2 Cooling Tower	LAC 33.III.1311.B.Emission Standards for Particulate Matter/Emission Limits	DOES NOT APPLY. When the presence of uncombined water is the only reason for failure of an emission to meet the requirements of this Section, this Section will not apply.
EQT11-Raw Water Supply Diesel Engine	40 CFR 60 Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	DOES NOT APPLY. Engines were manufactured prior to April 1, 2006.
EQT12-Ammonia Plant No. 2 Fire Water Pump Diesel Engine	40 CFR 60 Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engine	DOES NOT APPLY. Engine was manufactured prior to July 1, 2006.
EQT27-43,000 Gallon Aqua Ammonia Storage Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	
EQT28-26,000 Gallon Aqua Ammonia Storage Tank #1	40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	DOES NOT APPLY. Tanks do not store petroleum liquids or volatile organic liquids.
EQT29-26,200 Gallon Aqua Ammonia Storage Tank #2	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	
EQT30-18,000 Gallon Demin. Water Storage Tank		

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Terra Mississippi Nitrogen, Inc.  
 Donaldsonville Facility  
 Agency Interest No.: 2245  
 Donaldsonville, Ascension Parish, Louisiana

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT31 - 1,050 Gallon Unleaded Gasoline Storage Tank	40 CFR 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978  40 CFR 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 13, 1978, and Prior to July 23, 1984	DOES NOT APPLY. Tank storage capacity is <151,412 liters (40,000 gallons).
EQT14- Primary Reformer Stack Vent (Ammonia Plant No. 2) EQT15- CO2, Regenerator Stack Vent (Ammonia Plant No. 2)	40 CFR 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984  LAC 33:III.2115.Waste Gas Disposal	DOES NOT APPLY. Tank storage capacity is <75 cubic meters.  DOES NOT APPLY. Vent gas streams have a concentration of VOC less than 3,000 PPM.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

**General Information**

**AI ID:** 2245 Terra Mississippi Nitrogen Inc - Donaldsonville Facility  
**Activity Number:** PER20050010  
**Permit Number:** 0180-00009-V1  
**Air - Title V Regular Permit Renewal**

Also Known As:	ID	Name	User Group	Start Date
	0180-00009	Terra Mississippi Nitrogen Inc - Donaldsonville Facility	CDS Number	08-05-2002
	64-0354930	Triad Nitrogen LLC - Amonia & Urea Manufacturing Plants	Federal Tax ID	11-21-1999
	64-0469103	Triad Nitrogen LLC	Federal Tax ID	11-21-1999
LAD049047038		Terra Mississippi Nitrogen Inc	Hazardous Waste Notification	12-21-2004
LAD049047038		Triad Nitrogen LLC	Inactive & Abandoned Sites	06-09-1981
LA0005959		WPC File Number	LPDES Permit #	06-25-2003
LAG670085		WPC State Permit Number	LPDES Permit #	06-29-2006
WP0698		WPC State Permit Number	LWDPS Permit #	06-25-2003
WF4726		WPC State Permit Number	LWDPS Permit #	06-25-2003
GD-005-0812		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
GD-005-0788		Ammonia Producers	Solid Waste	01-08-2002
103807		Site ID #	Solid Waste Facility No.	05-01-2001
3540		Triad Nitrogen Inc	TEMPO Merge	11-10-2002
38503		Triad Nitrogen Inc	TEMPO Merge	03-22-2001
38824		Triad Nitrogen LLC	TEMPO Merge	12-14-2000
39127		Triad Nitrogen LLC	TEMPO Merge	12-14-2000
70346MPRMM39139		TRI #	Toxic Release Inventory	07-08-2004
70346TRDCCH39041		TRI #	Toxic Release Inventory	07-09-2004
1054		UST Case Number	UST Case Number	11-21-1999
337		UST Case Number	UST Case Number	11-21-1999
03009670		UST Facility ID (from UST legacy data)	UST FID #	10-11-2002
3549		Triad Nitrogen LLC	Water Permitting	11-21-1999
		Terra Industries Inc	dba (Doing Business As)	02-28-2005
		39139 Hwy 18 W Donaldsonville, LA 70346	Main FAX: Main Phone:	2254746400 2254744650
		PO Box 310 Donaldsonville, LA 703460310	Phone (Type)	Emission Inventory Contact for
		latitude, longitude, Coordinate Method: Lat/Long. - DMS, Coordinate Datum: NAD83	Mailing Address	
		Related People:	Name	Relationship
		Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (NP)

**General Information**  
**All ID: 2245 Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Accident Prevention Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Accident Prevention Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Responsible Official for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Responsible Official for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Responsible Official for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Air Permit Contact For
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Air Permit Contact For
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Air Permit Contact For
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Emission Inventory Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Accident Prevention Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Emission Inventory Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Accident Prevention Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Accident Prevention Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Emission Inventory Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Accident Prevention Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Accident Prevention Contact for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Haz. Waste Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	RBARTLEY@TERR.	Haz. Waste Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254744650 (WP)	Haz. Waste Billing Party for
	Richard Bartley	PO Box 310 Donaldsonville, LA 703460310	2254746400 (WF)	Haz. Waste Billing Party for
	Mark Ezell	PO Box 310 Donaldsonville, LA 703460310	2254746402 (WF)	Solid Waste Billing Party for
	Mark Ezell	PO Box 310 Donaldsonville, LA 703460310	2254744675 (WP)	Solid Waste Billing Party for
	Bobby Shackelford	PO Box 310 Donaldsonville, LA 703460310	5043440435 (WP)	Water Billing Party for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Industrial Asbestos Removal (IAR) Inc	PO Box 87530 Baton Rouge, LA 708797530	2254615195 (WP)	Provides environmental services for
	Terra Mississippi Nitrogen Inc	PO Box 310 Donaldsonville, LA 703460310	2254739231 (WP)	Emission Inventory Billing Party
	Terra Mississippi Nitrogen Inc	PO Box 310 Donaldsonville, LA 703460310	2254739231 (WP)	Air Billing Party for
	Terra Mississippi Nitrogen Inc	PO Box 310 Donaldsonville, LA 703460310	2254739231 (WP)	Operates
	Terra Mississippi Nitrogen Inc	PO Box 310 Donaldsonville, LA 703460310	2254739231 (WP)	Owns

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdated@la.gov.

**INVENTORIES**  
**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
ARE 0005	ID-100 - Wastewater Pond		70 gallons/min	58 gallons/min		8760 hr/yr
ARE 0006	ID-112 - Stormwater Drains		.328 MM BTU/hr	.328 MM BTU/hr		8760 hr/yr
EQT 0004	ID-09 - Ammonia Storage Flare		.328 MM BTU/hr	.328 MM BTU/hr		8760 hr/yr
EQT 0005	ID-21 - Flare (Ammonia Plant No. 1 Terra Reference D-901)		2016 tons/day	1680 tons/day		8760 hr/yr
EQT 0006	ID-22 - Railcar and Truck Loading Area (Ammonia Plant No. 2)		2016 tons/day	1680 tons/day		8760 hr/yr
EQT 0007	ID-24 - Railcar and Truck Loading Area (Ammonia Plant No. 1)		2016 tons/day	1680 tons/day		8760 hr/yr
EQT 0008	ID-25 - Ammonia Barge and Ship Loading Area (Terra Reference No. D-551)			10080 tons/day	Ammonia Loading	8760 hr/yr
EQT 0009	ID-104 - Process Area Sumps (7 Sumps Total)	2652000 gallons/yr	2210000 gallons/yr			8760 hr/yr
EQT 0010	ID-26a - Aqua Ammonia System with Vent Scrubber	73000 tons/yr	54650 tons/yr			8760 hr/yr
EQT 0011	ID-91 - Raw Water Supply Diesel Engine	530 horsepower	530 horsepower			12 hr/yr
EQT 0012	FP-01 - Ammonia Plant No. 2 Fire Water Pump Diesel Engine	286 horsepower	286 horsepower			400 hr/yr
EQT 0013	CF-01 - Ammonia Plant No. 2 Cooling Tower	80000 gallons/min	80000 gallons/min			8760 hr/yr
EQT 0014	ID-02 - Primary Reformer Slack Vent (Ammonia Plant No. 2)	857 MM BTU/hr	857 MM BTU/hr			8760 hr/yr
EQT 0015	ID-04 - CO2, Regenerator/Slack Vent (Ammonia Plant No. 2)	1950 tons/day	1800 tons/day			8760 hr/yr
EQT 0016	MIC 23 - Ammonia Plant No. 2 Start-up Vent MIC 23	2839.7 ft^3/sec	2449.85 ft^3/sec			1872 hr/yr
EQT 0017	MIC 25 - Ammonia Plant No. 2 Start-up Vent MIC 25	1377.7 ft^3/sec	1148.1 ft^3/sec			1872 hr/yr
EQT 0018	PIC-4V-25 - Ammonia Plant No. 2 Start-up Vent PIC-4V-25	787.38 ft^3/sec	698.51 ft^3/sec			144 hr/yr
EQT 0019	SU 1 - Start-up Heater for Ammonia Plant No. 2	33.66 MM BTU/hr	33.66 MM BTU/hr			32 hr/yr
EQT 0020	RV-110 - Ammonia Plant No. 2 Refrigeration Relief	158.82 ft^3/sec	130.52 ft^3/sec			1.5 hr/yr
EQT 0021	PIC-5 - Ammonia Plant No. 2 Start-up Vent PIC-5	797.26 ft^3/sec	684.39 ft^3/sec			8 hr/yr
EQT 0027	ID-26b - 43,000-Gallon Aqua Ammonia Storage Tank	73000 tons/yr	54650 tons/yr			8760 hr/yr
EQT 0028	ID-26c - 26,000-Gallon Aqua Storage Tank	73000 tons/yr	54650 tons/yr			8760 hr/yr
EQT 0029	ID-26d - 26,000-Gallon Aqua Ammonia Storage Tank	73000 tons/yr	54650 tons/yr			8760 hr/yr
EQT 0030	ID-26e - 18,000-Gallon Demin. Water Storage Tank					8760 hr/yr
EQT 0031	M1 - Unleaded Gasoline Storage Tank	6300 gallons/yr	5250 gallons/yr			8760 hr/yr
FUG 0001	ID-20 - Fugitive Emissions (Ammonia Plant No. 2)	1950 tons/day	1800 tons/day			8760 hr/yr
FUG 0002	ID-28 - Fugitive Emissions (Ammonia Tank No. 1, Injection & Dock)	1950 tons/day	1800 tons/day			8760 hr/yr
FUG 0003	ID-29 - Fugitive Emissions (Aqua Ammonia System)	200 tons/day		Aqueous - NH3		8760 hr/yr
<b>Stack Information:</b>						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
<b>Entire Facility</b>						
EQT 0004	ID-09 - Ammonia Storage Flare	4.5	104	.7		98
						1000

**INVENTORIES**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>Entire Facility</b>								
EQT 0005	ID-21 - Flare /Ammonia Plant No. 1 Terra Reference D-901)	.02	.4	.67			129	80
EQT 0006	ID-22 - Railcar and Truck Loading Area (Ammonia Plant No. 2)	48.95	64	.17			12	80
EQT 0007	ID-24 - Railcar and Truck Loading Area (Ammonia Plant No. 1)	48.95	64	.8			35	350
EQT 0011	ID-91 - Raw Water Supply Diesel Engine	36	4500	.5			8.5	400
EQT 0012	FP-01 - Ammonia Plant No. 2 Fire Water Pump Diesel Engine	30	4400	13			120	385
EQT 0014	ID-02 - Primary Reformer Stack Vent (Ammonia Plant No. 2)	48.95	389842	28.6	2.17		83	120
EQT 0015	ID-04 - CO2 Regenerator Stack Vent (Ammonia Plant No. 2)	128.9					134	650
EQT 0016	MIC 23 - Ammonia Plant No. 2 Start-up Vent MIC 23	74	146985	6.5				
EQT 0017	MIC 25 - Ammonia Plant No. 2 Start-up Vent MIC 25	74	688886	6.5				
EQT 0018	PIC-4V-25 - Ammonia Plant No. 2 Start-up Vent PIC-4V-25	28	39369	5.5			107	90
EQT 0019	SU 1 - Start-up Heater for Ammonia Plant No. 2	22	18818	4.3			76	1500
EQT 0020	RV-110 - Ammonia Plant No. 2 Refrigeration Relief	659	7831	.5			37.5	0
EQT 0021	PIC-5 - Ammonia Plant No. 2 Start-up Vent PIC-5	20	398853	6.5			134	650
EQT 0031	M1 - Unleaded Gasoline Storage Tank			.33			8	80

**Relationships:**

ID	Description	Relationship	ID	Description
EQT 0010	ID-26a -Aqua Ammonia System with Vent Scrubber	Controls emissions from	EQT 0027	ID-26b - 43,000-Gallon Aqua Ammonia Storage Tank
EQT 0010	ID-26a -Aqua Ammonia System with Vent Scrubber	Controls emissions from	EQT 0030	ID-26e - 18,000-Gallon Demin. Water Storage Tank
EQT 0010	ID-26a -Aqua Ammonia System with Vent Scrubber	Controls emissions from	EQT 0029	ID-26d - 26,000-Gallon Aqua Ammonia Storage Tank
EQT 0010	ID-26a -Aqua Ammonia System with Vent Scrubber	Controls emissions from	EQT 0028	ID-26c - 26,000-Gallon Aqua Storage Tank

**Subject Item Groups:**

ID	Group Type	Group Description
UNF 0001	Unit or Facility Wide	UNF0001 - Entire Facility

**Group Membership:**

Annual Maintenance Fee:	Air Contaminant Source	Multipiler	Units Of Measure
0640	0640 Ammonia Manufacture (Rated Capacity)	200	tons/day

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group**

**INVENTORIES**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
Activity Number: PER20050010  
Permit Number: 0180-00009-V1  
Air - Title V Regular Permit Renewal

**SIC Codes:**

2813	Industrial gases	AI 2245
2813	Industrial gases	UNF 001
2873	Nitrogenous fertilizers	AI 2245
2873	Nitrogenous fertilizers	UNF 001
4491	Marine cargo handling	AI 2245
4491	Marine cargo handling	UNF 001

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility  
 Activity Number: PER20050010  
 Permit Number: 0180-00009-V1  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/hr	Avg lb/Year	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
<b>Entire Facility</b>															
EQT 0004 ID-09	<b>5.52</b>	<b>6.63</b>	<b>0.74</b>	<b>8.22</b>	<b>9.86</b>	<b>1.15</b>	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01
EQT 0005 ID-21	<b>5.52</b>	<b>6.63</b>	<b>0.74</b>	<b>8.22</b>	<b>9.86</b>	<b>1.15</b>	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01
EQT 0011 ID-91	<b>1.28</b>	<b>1.54</b>	<b>0.27</b>	<b>5.95</b>	<b>7.14</b>	<b>1.24</b>	0.42	0.50	0.09	0.39	0.47	0.08	0.49	0.58	0.10
EQT 0012 FF-01	<b>0.69</b>	<b>0.83</b>	<b>&lt;0.01</b>	<b>3.21</b>	<b>3.85</b>	<b>0.02</b>	0.23	0.27	<0.01	0.21	0.25	<0.01	0.26	0.31	<0.01
EQT 0013 C1-91							4.08	4.90	17.87						
EQT 0014 ID-02	<b>141.80</b>	<b>170.16</b>	<b>621.08</b>	<b>249.69</b>	<b>298.70</b>	<b>1308.32</b>	<b>8.57</b>	<b>10.25</b>	<b>44.90</b>	<b>0.68</b>	<b>0.81</b>	<b>3.54</b>	<b>1.28</b>	<b>1.54</b>	<b>5.61</b>
EQT 0015 ID-04	<b>1.81</b>	<b>2.15</b>	<b>9.44</b>										20.31	22.01	96.39
EQT 0016 MIC-23	<b>1227.68</b>	<b>1227.68</b>	<b>18.42</b>												
EQT 0017 MIC-25	<b>118.98</b>	<b>118.98</b>	<b>1.19</b>												
EQT 0019 SU-1	<b>2.90</b>	<b>3.48</b>	<b>0.05</b>	<b>3.45</b>	<b>4.14</b>	<b>0.06</b>	0.26	0.31	<0.01	0.02	<0.01	0.19	0.23	<0.01	
EQT 0021 PIC-S MI	<b>204.45</b>	<b>204.45</b>	<b>4.09</b>										0.13	0.16	0.55

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility

Activity Number: PER20050010

Permit Number: 0180-00009-V1

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
ARE 0005 ID-100	Ammonia	22.24	26.69	97.40
ARE 0006 ID-112	Ammonia	3.83	4.60	16.78
EQT 0004 ID-09	Ammonia	75.36	90.44	9.28
	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	<0.001	<0.001	<0.01
EQT 0005 ID-21	Ammonia	75.36	90.44	9.28
	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	<0.001	<0.001	<0.01
EQT 0006 ID-22	Ammonia	0.81	1.55	3.55
EQT 0007 ID-24	Ammonia	0.81	1.55	3.55
EQT 0008 ID-25	Ammonia	5.87	11.74	0.44
EQT 0009 ID-104	Ammonia	0.33	0.40	1.46
EQT 0010 ID-26a	Ammonia	0.10	0.12	0.43
EQT 0011 ID-91	1,3-Butadiene	<0.001	<0.001	<0.001
	Acetaldehyde	0.001	0.001	<0.01
	Acrolein	<0.001	<0.001	<0.001
	Benzene	0.001	0.002	<0.01
	Formaldehyde	0.002	0.002	<0.01
	Naphthalene (and Methyl naphthalenes)	<0.001	<0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	Xylene (mixed isomers)	<0.001	<0.001	<0.01
EQT 0012 FP-01	1,3-Butadiene	<0.001	<0.001	<0.001
	Acetaldehyde	<0.001	<0.001	<0.01
	Acrolein	<0.001	<0.001	<0.001
	Benzene	0.001	0.001	<0.01
	Formaldehyde	0.001	0.001	<0.01
	Naphthalene (and Methyl naphthalenes)	<0.001	<0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	Xylene (mixed isomers)	<0.001	<0.001	<0.01
EQT 0013 CT-01	Chlorine	<0.001	<0.001	<0.01
EQT 0014 ID-02	1,4-Dichlorobenzene	0.001	0.001	0.01
	Benzene	0.002	0.003	0.01
	Cadmium (and compounds)	0.001	0.001	0.005

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility****Activity Number: PER20050010****Permit Number: 0180-00009-V1****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0014 ID-02	Chromium VI (and compounds)	0.001	0.002	0.006
	Formaldehyde	0.08	0.09	0.33
	Nickel (and compounds)	0.002	0.003	0.009
	Toluene	0.003	0.004	0.02
	n-Hexane	1.80	2.16	7.88
EQT 0015 ID-04	Ammonia	2.42	2.88	10.58
	Methanol	20.31	22.01	96.39
EQT 0019 SU 1	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	0.01	0.01	<0.01
	Toluene	<0.001	<0.001	<0.01
	n-Hexane	0.12	0.15	0.03
EQT 0020 RV-110	Ammonia	5000.00	6000.00	15.00
EQT 0031 M1	Benzene	0.001	0.001	<0.01
	Ethyl benzene	<0.001	<0.001	<0.01
	Toluene	0.001	0.001	<0.01
	Xylene (mixed isomers)	<0.001	<0.001	<0.01
	n-Hexane	0.001	0.001	<0.01
FUG 0001 ID-20	Ammonia	0.18	0.22	0.78
FUG 0002 ID-28	Ammonia	0.09	0.11	0.58
FUG 0003 ID-29	Ammonia	0.02	0.08	0.08
UNF 0001 UNF0001	1,3-Butadiene			0.002
	1,4-Dichlorobenzene			0.01
	Acetaldehyde			0.02
	Acrolein			0.002
	Ammonia			169.19
	Benzene			0.07
	Cadmium (and compounds)			0.005
	Chlorine			0.01
	Chromium VI (and compounds)			0.006
	Ethyl benzene			0.01
	Formaldehyde			0.38
	Methanol			96.39
	Naphthalene (and Methyl naphthalenes)			0.03

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS****AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility****Activity Number: PER20050010****Permit Number: 0180-00009-V1****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 UNF0001	Nickel (and compounds)			0.009
	Toluene			0.06
	Xylene (mixed isomers)			0.03
	n-Hexane			7.92

**Note:** Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number:** PER20050010  
**Permit Number:** 0180-00009-V1  
**Air - Title V Regular Permit Renewal**

**ARE\_0005 ID-100 - Wastewater Pond**  
 1 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**ARE\_0006 ID-112 - Stormwater Drains**  
 2 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT\_0004 ID-09 - Ammonia Storage Flare**

- 3 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average  
 Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack. Complies by using natural gas and ammonia gas only which have heat content >300 BTU/scf.  
 Which Months: All Year Statistical Basis: None specified  
 Presence of a flame recordkeeping by electronic or hard copy daily while flare is in use for ammonia emission control.  
 Presence of a flame monitored by heat sensing device continuously while flare is in use for ammonia emission control.  
 Which Months: All Year Statistical Basis: None specified  
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT\_0005 ID-21 - Flare (Ammonia Plant No. 1 Terra Reference D-901)**

- 9 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average  
 Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack. Complies by using natural gas and ammonia gas only which have heat content >300 BTU/scf.  
 Which Months: All Year Statistical Basis: None specified  
 Presence of a flame monitored by heat sensing device continuously while flare is in use for ammonia emission control.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

**EQT 0005 ID-21 - Flare (Ammonia Plant No. 1 Terra Reference D-901)**

- 13 [LAC 33:III.507.H.1.a] Presence of a flame recordkeeping by electronic or hard copy daily while flare is in use for ammonia emission control.  
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0006 ID-22 - Railcar and Truck Loading Area (Ammonia Plant No. 2)**

- 15 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0007 ID-24 - Railcar and Truck Loading Area (Ammonia Plant No. 1)**

- 16 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0008 ID-25 - Ammonia Barge and Ship Loading Area (Terra Reference No. D-551)**

- 17 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0009 ID-104 - Process Area Sumps (7 Sumps Total)**

- 18 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0010 ID-26a - Aqua Ammonia System with Vent Scrubber**

- 19 [LAC 33:III.507.H.1.a] Tank Condensate Level >=3 feet during loading process of aqua ammonia.  
 Knockout tank (Unit 503-E) condensate level monitored by technically sound method once per hour during loading process of aqua ammonia.  
 Knockout tank (Unit 503-E) condensate level recordkeeping by electronic or hard copy.  
 Develop a corrective action plan for replenishing condensate level in the knockout tank (Unit 503-E). Plan must be kept readily available for immediate implementation in the event the condensate level falls below the required minimum level.  
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0011 ID-91 - Raw Water Supply Diesel Engine**

**SPECIFIC REQUIREMENTS**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

**EQT 0011 ID-91 - Raw Water Supply Diesel Engine**

- 24 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0012 FP-01 - Ammonia Plant No. 2 Fire Water Pump Diesel Engine**

- 26 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average

**EQT 0013 CT-01 - Ammonia Plant No. 2 Cooling Tower**

- 28 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.I or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0014 ID-02 - Primary Reformer Stack Vent (Ammonia Plant No. 2)**

- 29 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.  
 Which Months: All Year Statistical Basis: None specified  
 Nitrogen oxides <= 0.23 lb/MMBTU.  
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average  
 Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ.

**SPECIFIC REQUIREMENTS**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
**Permit Number: 0180-00009-V1**  
**Air - Title V Regular Permit Renewal**

**EQT 0014 ID-02 - Primary Reformer Stack Vent (Ammonia Plant No. 2)**

- 34 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO<sub>2</sub>, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 35 [LAC 33:III.2201.H.2.b.i]
- 36 [LAC 33:III.2201.H.2.b.ii] Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter.
- Which Months: May-Sep Statistical Basis: None specified  
Diluent - either Oxygen or Carbon dioxide monitored by the regulation's specified method(s) continuously. Monitor oxygen or carbon dioxide with a diluent monitor.
- Which Months: May-Sep Statistical Basis: None specified  
Nitrogen oxides monitored by continuous emission monitor (CEM) continuously.
- Which Months: May-Sep Statistical Basis: None specified  
Carbon monoxide monitored by the regulation's specified method(s) continuously. Monitor carbon monoxide with a CO monitor.
- Which Months: May-Sep Statistical Basis: None specified  
Fuel monitored by the regulation's specified method(s) daily. Analyze the fuel gas composition according to the methods listed in LAC 33:III.2201.G.5.g.
- Which Months: May-Sep Statistical Basis: None specified  
Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition.
- Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.
- Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.
- Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.

**EQT 0015 ID-04 - CO<sub>2</sub>, Regenerator Stack Vent (Ammonia Plant No. 2)**

- 48 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**SPECIFIC REQUIREMENTS**

AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility  
**Activity Number:** PER20050010  
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**Air - Title V Regular Permit Renewal**

**EQT 0015 ID-04 - CO<sub>2</sub>, Regenerator Stack Vent (Ammonia Plant No. 2)**

Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment.

The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO<sub>2</sub> / ton 100% H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.

Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a protest meeting and observe the emission testing.

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of methanol and ammonia of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Emission tests shall be conducted as set forth in accordance with Test Methods of 40 CFR, Parts 60, 61 and 63 or in accordance with alternative test methods approved by Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

**EQT 0019 SU 1 - Start-up Heater for Ammonia Plant No. 2**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

**EQT 0020 RV-110 - Ammonia Plant No. 2 Refrigeration Relief**

Emits Class III TAP only. Chapter S1 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or S1.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**EQT 0031 M1 - Unleaded Gasoline Storage Tank**

55 [LAC 33:III.5107.A.2] Emits  
 56 [LAC 33:III.2103.A] Equip with a submerged fill pipe.

**FUG 0001 ID-20 - Fugitive Emissions (Ammonia Plant No.2)**

**SPECIFIC REQUIREMENTS**

**AI ID: 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility**  
**Activity Number: PER20050010**  
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**FUG 0001 ID-20 - Fugitive Emissions (Ammonia Plant No.2)**

57 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**FUG 0002 ID-28 - Fugitive Emissions (Ammonia Tank No.1, Injection & Dock)**

58 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**FUG 0003 ID-29 - Fugitive Emissions (Aqua Ammonia System)**

59 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

**UNF 0001 UNF0001 - Entire Facility**

- 60 [40 CFR 61.145(b)(1)] Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]  
 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.  
 Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]  
 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]  
 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]  
 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]  
 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.

**SPECIFIC REQUIREMENTS**

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**UNF 0001 UNF0001 - Entire Facility**

- 67 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 68 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 69 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 70 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- 71 [LAC 33:III.501.C.6] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 72 [LAC 33:III.5107.A.2] Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 73 [LAC 33:III.5107.A] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 74 [LAC 33:III.5107.B.1] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.
- 75 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- 76 [LAC 33:III.5107.B.3] Submit notification in the manner provided in LAC 33:III.3923.

**SPECIFIC REQUIREMENTS**

**AI ID:** 2245 - Terra Mississippi Nitrogen Inc - Donaldsonville Facility  
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**UNF 001 UNF0001 - Entire Facility**

- 77 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- Permittee shall comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.